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AVIATION WEEK, Month 21, 2915

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TITEFLEX, INC. 511 Policylogues for — heart 5, 8-7 Vol. 26, No. 12 AVIATION WEEK

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THE AVIATION WEEK

B-36 vs. Fighters-Analysis

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House, or the meson meanwhal exemples of the come as no surprise to top USAI pleasers. As early as ft. There tests underted that the supercorbility of the tet Sobies at that altitude was not coffeend to realthe first atomic bombourning B-Ns over known personnel at 30,000 fr his embirked on an extension and reproving let fighter While the fighter progress was under development more tests were con petitive the new F-80s serviced USAF new admits up effect that the fighter program zimed at speed has not sendered a fighter couple of recout excellation of the North American F-93A, a Revolue Fighters

of mevaluation with no clear direction of its future not

Vet appropriate in amount, neverthate and consumerability are numerotic arrayed to come with even the B-96 type of bomber shore 40,000 ft. One Another school believes that the concent of a week-

scatter fighter is netropoled and what is wally movied in an "orr destroyer" capable of meeting the bomber at its own skitzede with serborne rader causible of least mone fashter controvers to Who has the Navy and been some that the paster powered Churce Vergle F8U 5 could hardle the B-16 Others think the Cutless (FTG)11 with its twin sets and afterlanders would dethe tack. Certainly the ten willbur changes of the National Military Establishment should find out Sepilesh if strikes some observers as abund to ma-

Total Air Power Concept

of our serial capabilities is centraly not being furthered spore parts perchange, etc., the concept of total str The present state of the USAF fighter progents to a good carrieds of when such concentrationalised

narco

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development in the propeller

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NEWS DIGEST INDUSTRY OBSERVER

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Book Newto of Carl Araban as-America Arrest and Betali Osmon Arrays Curp. 165A's operations have been empthd by withdrawal of all leterational Airport will be con-

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► Writch for a new trend on Enhanceme around: Both USAF and New * Too skilleds suched so far by the 3-36 has been 40,000 ft. This we see at the ESSAs, as eater model with two powerful cagnet

than the \$36B and \$5000, \$500 Sights above 48,000 ft have also man the first and first and in all regiments reliablishes of a constant temperature above 75,000 ft, of ranges 67 cer. P. Temperatures respect down to makes 110 deg. F. have been consumered as B-16 fights sound 40,000 to Cloder those conditions it is not surgeing that name maker engagest described for the mixes 67 dec. F. minimum have total. But suprace to that so much of this episponent still works

Constant Cir. and Frenchy Co. for Complian manufacture of the Subsc (F SSA) at Cascago's Noetzel plant, Specific classe will * A. V. Rac of Casada has built a new set ecoing-the Avon Occudaat ats Toccosto plant. New act is rated at about \$900 lb state; theme

The Onnals may be used so both the Avan C-100, twin jet right felice and the Nexts American F.56.5 models uspenfiatested in * Booke is recoloration production schodules on its 8.90 bomber

► McDannell F2B-2, latest model Bumber set Sebber, features wing stonetural medifications to accommodate was tap muditay feel tunks. Enfits reasens second for the trace one, when come properties at tips to avoid such circurace difficults. New model also features

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Support lacking from manufacturers, who favor stressing military aircraft program.

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*Long-Roage 15 tm reports well 2500-cade range, capable of operating from a 4000 in Sold its shorthand

Wind Tunnel Bill

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New R-36 Record

IAS Devotes Day To Jet Discussion

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P Combustion - Some Aspects of Tay-

Vampires In France

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By Bokert Botz

Meet Dex Kimbell Navy Air Boss Once Army Pilot

But he still sees future for surcraft carriers, and thinks interservice competition produces progress.

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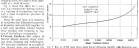
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Theory of the Inversely Tapered Wing

New configuration may be answer to poor stability of exernt wine jet fielders and hombers at loss speeds. By Robert McLoren. The use of names to measure the coned Mach mawher of high-rocal august:

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XF-91 repenone fighter in new at

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Andrew of Terrolate Co. Street Street Street

10th edition LITTLE KNOWN FACTS FACTS AND FIGURES

OPERATIONS OF THE SCHEDULED AIRLINES IN 1948

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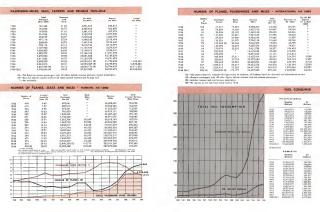
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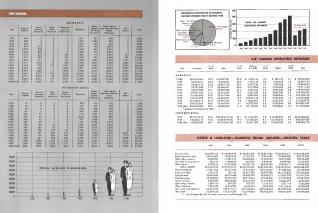
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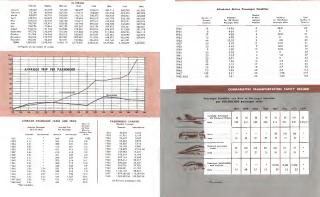
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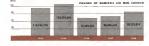
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1934	400			29,111,474	20,850	4,512,880	2,787,102	1.84	
			135,095		25,884	6,770,486	3,442,621	1.65	
								176	
1927		237		39,958,771	27,622	12,732,630	4,448,608	1.77	
							4,994,558	1.72	
1939	335	303	435.608	\$3,141,758	37,000	15,816,617	5,227,405	1.74	
						18,671,367		2.10	
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		342		\$9,357,567	44,433	31,404.357	6,636,214	1,61	
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				166,576,371	55,847	122,996,591	24,271,760	.21	
1947	649		4.55,592	314,505,945 (A)	102,484	67,475,414 (A)	41,212,887 (A	25	
						67,716,848 (A)	71,437,534	44	

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AR TRANSPORT ASSOCIATION OF AMERICA

TRAM-WORK FOR PROGRESS IS the obsective of the Air Transport Association of America Its activathe public. Through ATA the experience and atefforts of eacht pourrament agreeses and four private agencies are welded into unified action for the benefit of the travelling public and the na-

turn founded in 1936 and commont of the United States Flag Airlines certificated by the Civil Agennautics Board for scheduled service over regularly established routes. The operations of the member in appen Their field coares the transportation of pessengers, property and mad by agreeaft. The Association concluded the year 1948 with 31 members operating in and from the United States. and two associates in Latin America. Nine morebers are local service nightes which are doly sertificated regional carriers

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Cultime STR 5 VIST (108-126 spc) 280 channel previousling proteins. Ocean bearing endocator and power unit assumed on accessory unit. The accessory swit well reported mounting for I omei-bearing indicators. I serve amplifiers for RMI. VHP reported antenna. and nonce units for two \$120.1 recovery.

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Control

Behind the Scenes

at Hamilton Standard Propellers

Every time a bulging C-54 sets down a nine-and-a-half ton load of flour or succurred at Tempelloof on the Berlin Airlift, four Hamilton Stradard propellers have just finished revolving a banderd thousand times each has a series of the design of the Lieft that more more than half in

What's so existing about that:

The existing thing is that there's nothing existing about it. What we mean is that the propellers don't break — they not keep rolling along.

Yet according to all the laws of the Modes and the Persians, they should break — because of farigue.

Fatigue, as you probably know, means progressive failure due to repeated array. You may not know that fatures is responsible for most of the

fractures that occur when metal is stressed.

And in a propeller, loads are high, materials are light, and vibration is always present. So, every time a propeller tums over, vibration is insidently and referedestly ingoling twosy, trying to allow old man fatigue to

couse a failure.

a hillion peopeller revolutions.

Why doesn't be succeed?

Because we have been just as relentisely tracking him down in our laboratories. We've spied on him with microscopes and cancerss, we've measured him by electricity, we've X-raved him, we've unduly his behavior under

conditions of hitter oold and blooming heat.

Here in the Hamilton Standard laboratories, a staff of some 20 specialism has devoted all its time for many years to the study of farigate and its re-laced problems. In collaboration with designers, metallungues, production experts and others shey have found the answers to many of these problems.

tory zore puryea an unperturn port in treatment granutes one or entirent ground.

Our contenting usedy of frigings, of course, represents only one phase of the complex test of designing, developing and producing Hamilton Semantar properties. But already a has constrained heavily to the dependability of metal intensity and the constrained heavily to the dependability of metal intensity and the properties are supplied to the properties are determined to the contrained of the formation of the form

IN TESTING A PROPELLER REAGE, HOW MANY



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A MESSAGE TO AMERICAN INQUSTRY . 7374 OF A SERIES

"Give us the tools "

Now is the time to FIGHT SOCIALISM in Washington

Do we want to follow licitain down the economic

the Manhall Plan.

We American face that question today. For we are being advised by Administration economists Bettyin industrially, ft is the temporarily saxy. course of outline down expenditures for took in order to have more things to commen right owns.

The President's Council of Economic Advisors min. When the Reitish over allowed their saddletrul alone and essignment to run daws - they

started down a design road to industrial southetion and decay British industry once roled the world, Low pro-New all that Betzin has between it and conyoung disposer is plack and American aid through

World War II only speeded up a process already

careital coods at this same time

The British people are living peoply - atill on rations and in austenty. With practically everyone

nay for the raw materials and food they must also stands out

worse. By 1929 the share of Britain's national moone being plowed back rate capital investit had been taxour years earlier. We were rectives

Sciencias on capital conferent—so new clusts and new tools - not the skids under industrial

Reitain's indestrial and political leadership slipped

How could British leaders have slept while all This, too, is a complicated story. But purts of

on the average, forty years old

He produces more than four somes as many

The real passes is the American's better took

The British are struming with equipment that is,

L. British hardness stem not in more time perfeeting cartely to excel competition than they

2. Branch labor feedors concentrated on shores the work and abartus the treath) - rather than doare the and necessary to have exceed would to

compliance, they and even the ability of under deads to lever in one equipment Finally, they took 6. Formeier cocialists united all the white

Amoreties that as private industry more and more incited the tools so do a progressive job, they would Now, with Britain's fire in their hands, the socisitets are trying descentally to store the patron's economic decline by robuilding its industrial plane.

facture to keep up to date. Here are three examples enough. Them are several masons. One is that found by Dr. Laci Rosto, British's leading se-British most expert most of the new equipment thority on measuring workers' productivity she can make, Another major recom-increasingly

rencesar Britain's run-down industry is asset great to appear welfers programs. The (London) Economist gogsly puts it this way.

have investy been destroyed." Our own Federal and State coveraments, too. have denocrossly whitfied away morntoon. They

If the United States is not to on Reltain's way. we ment preserve our incontinue to save and to lavest in Industry,

If the United States is to progress, we ment conthese to halld up our industries

slow down. But the McGrass-Hill survey of "Bassnest' Needs for New Placts and Economers " reported in the previous editorial in this series, occduced facts to the contrary. It showed that industry now plans-of it can get the money-to spend By cutting down the incentives to save, by groups

soothing advice that we do not need to save so much, Washington is pushing as asward Britan's Before we skid too far, we should oull up short and ask ourselver: Do we want to go Britain's se-

There still is trene to say, "No,"

and equipment

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pheric currents for 6 to 12 months . . . Elevale to Glidair No. 342 Danel Coating " That's how Mr. Hurold B. Sofier, Vice President of Operations, Proper Air Lines, Inc., describes the all-weather performance of new Glidair David Course. Enior the advantages of fewer polishings, lower maintenance costs by applying this clear, prainted coating to your planes. It's easily apraved on polished dural, pro-

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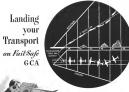
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SEARCHLIGHT SECTION @ market prediction of importance

to operators requiring the Pratt & Whitney R-1830-92...

The artificien is for the prices of services more time 8-1830 model excises to centimes commercial everyout, Several factors are mixing this obceptive mirror townitable. The first is an incressing appart of expensive re-work caused by advancing searchty of surplus engines on the agen market, and the third is the occumulation \$2,000, and in some cases prices have gone as high an \$2500. As these prices BAY climb. If this proper the whole regules market will not stabilities settle consentant

released by the U. S. Armed Parent, in which case it may prove requirible for this property union. By severally the fast is that the sarely of 1800 model engines which out be econsmically approved and manued on to cuttomers at restaurable arises to that the only way to guarantee the DG-3 and G-47 sparetors of the world a fine tuming at a fair prior in to agonly an engine not maked to the infiniteness

To de this, Stewart-Davis is now completing the enlargement of its about and the the lowest price consistent with the fact that safety and dependability are than

your remnest assesse, and it will be worranted for 800 hours. Severy will be parented

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